



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300

Sent To: Greg Denton
TDEC-WPC
6th Floor, L & C Tower Annex
401 Church Street
Nashville, TN 37243-1534

Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002356
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using good laboratory practices and in accordance with federal or state approved methodologies.


Analytical Supervisor

Lab-Sample Number: K00002356001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/07/2009 09:55
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.66 pH Units
Chlorine, residual:
Conductivity: 45 uMHO
Temperature: 16.16
Dissolved Oxygen: 10.18 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	11	mg/L	3.8	10	M Chen	5/12/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	12	mg/L	0.7	1	M Chen	5/12/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/8/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	U	mg/L	10	10	A Peebles	5/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002356002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 05/07/2009 10:52
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.27 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.95
Dissolved Oxygen: 9.80 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	5/12/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	14	mg/L	0.7	1	M Chen	5/12/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/8/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	11	mg/L	10	10	A Peebles	5/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002356003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA Ash Spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/07/2009 11:02
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 6.97 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.54
Dissolved Oxygen: 9.93 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	5/12/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	12	mg/L	0.7	1	M Chen	5/12/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/8/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	13	mg/L	10	10	A Peebles	5/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002356004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA Ash Spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/07/2009 11:12
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.10 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.46
Dissolved Oxygen: 10.00 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	5/12/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	12	mg/L	0.7	1	M Chen	5/12/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/8/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	11	mg/L	10	10	A Peebles	5/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002356005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 05/07/2009 11:21
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 6.99 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.89
Dissolved Oxygen: 9.89 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	13	mg/L	3.8	10	M Chen	5/12/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	12	mg/L	0.7	1	M Chen	5/12/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/8/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	10	mg/L	10	10	A Peebles	5/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002356006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA Ash Spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/07/2009 11:33
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.19 pH Units
Chlorine, residual:
Conductivity: 105 uMHO
Temperature: 16.75
Dissolved Oxygen: 9.63 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	38	mg/L	3.8	10	M Chen	5/12/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	34	mg/L	0.7	1	M Chen	5/12/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/8/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	20	mg/L	10	10	A Peeples	5/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number: K00002356007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA Ash Spill
Project Site No.: 5A
Station No.: KingAshOurF2
Date/Time Collected: 05/07/2009 11:42
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.16 pH Units
Chlorine, residual:
Conductivity: 53 uMHO
Temperature: 17.81
Dissolved Oxygen: 9.56 mg/L
Other:
Flow: CFS

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	14	mg/L	3.8	10	M Chen	5/12/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	18	mg/L	0.7	1	M Chen	5/12/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	U	ml/L	0.10	0.10	P Leathers	5/8/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	28	mg/L	10	10	A Peebles	5/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected

Lab-Sample Number:	K00002356008	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.68 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley F	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	235 uMHO
Project Site No.:	6	Temperature:	17.48
Station No.:	CLINC004.5RO	Dissolved Oxygen:	9.91 mg/L
Date/Time Collected:	05/07/2009 11:55	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/07/2009 14:40		
Received By:	E McCrary		

TEST: Alkalinity, Total		METHOD: EPA 310.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Alkalinity	100	mg/L	3.8	10	M Chen	5/12/2009

TEST: Hardness, Calcium		METHOD: SM 3500-Ca D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Calcium hardness	80	mg/L	0.7	1	M Chen	5/12/2009

TEST: Residue, Settleable		METHOD: SM 2540F				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Settleable Residue	0.10	ml/L	0.10	0.10	P Leathers	5/8/2009

TEST: Residue, Suspended		METHOD: SM 2540D				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Total Suspended Solids	28	mg/L	10	10	A Peebles	5/8/2009

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

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6th Floor, L & C Tower Annex
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Nashville, TN 37243-1534

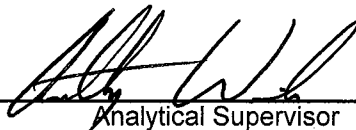
Michael Atchley
TDEC-WPC
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002356
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Pollution Control

Billing Code: 327.34-20

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.


Analytical Supervisor

Lab-Sample Number: K00002356001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/07/2009 09:55
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.66 pH Units
Chlorine, residual:
Conductivity: 45 uMHO
Temperature: 16.16
Dissolved Oxygen: 10.18 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/14/2009				S Ufegbu	5/14/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	620	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	390	µg/L	64.0	100	A Wilson	5/22/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/22/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/22/2009
Barium	29	µg/L	2.5	5	A Wilson	5/22/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/22/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/22/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/22/2009
Cobalt	0.55J	µg/L	0.04	1	A Wilson	5/22/2009
Copper	2.4	µg/L	0.38	1	A Wilson	5/22/2009
Lead	0.52J	µg/L	0.10	1	A Wilson	5/22/2009
Manganese	47	µg/L	0.42	1	A Wilson	5/22/2009
Nickel	1.7	µg/L	0.25	1	A Wilson	5/22/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/22/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/22/2009
Thallium	U	µg/L	0.03	1	A Wilson	5/22/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/22/2009
Zinc	6.4	µg/L	1.9	5	A Wilson	5/22/2009

Lab-Sample Number: K00002356001
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 12.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 1
Station No.: EMORY012.1RO
Date/Time Collected: 05/07/2009 09:55
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.66 pH Units
Chlorine, residual:
Conductivity: 45 uMHO
Temperature: 16.16
Dissolved Oxygen: 10.18 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	0.08J	µg/L	0.029	0.2	A Bass	5/12/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002356002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 05/07/2009 10:52
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.27 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.95
Dissolved Oxygen: 9.80 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/14/2009				S Ufegbu	5/14/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	510	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	640	µg/L	64.0	100	A Wilson	5/22/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/22/2009
Arsenic	1.1J	µg/L	0.93	5	A Wilson	5/22/2009
Barium	36	µg/L	2.5	5	A Wilson	5/22/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/22/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/22/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/22/2009
Cobalt	0.59J	µg/L	0.04	1	A Wilson	5/22/2009
Copper	2.0	µg/L	0.38	1	A Wilson	5/22/2009
Lead	0.82J	µg/L	0.10	1	A Wilson	5/22/2009
Manganese	50	µg/L	0.42	1	A Wilson	5/22/2009
Nickel	1.8	µg/L	0.25	1	A Wilson	5/22/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/22/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/22/2009
Thallium	0.053J	µg/L	0.03	1	A Wilson	5/22/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/22/2009
Zinc	4.7J	µg/L	1.9	5	A Wilson	5/22/2009

Lab-Sample Number: K00002356002
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 2.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 2
Station No.: EMORY002.1RO
Date/Time Collected: 05/07/2009 10:52
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.27 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.95
Dissolved Oxygen: 9.80 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	U	µg/L	0.029	0.2	A Bass	5/12/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002356003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA Ash Spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/07/2009 11:02
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 6.97 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.54
Dissolved Oxygen: 9.93 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/14/2009				S Ufegbu	5/14/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	470	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	450	µg/L	6.4	10	A Wilson	5/22/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/22/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/22/2009
Barium	25	µg/L	2.5	5	A Wilson	5/22/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/22/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/22/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/22/2009
Cobalt	0.39J	µg/L	0.04	1	A Wilson	5/22/2009
Copper	1.8	µg/L	0.38	1	A Wilson	5/22/2009
Lead	0.57J	µg/L	0.10	1	A Wilson	5/22/2009
Manganese	35	µg/L	0.42	1	A Wilson	5/22/2009
Nickel	1.3	µg/L	0.25	1	A Wilson	5/22/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/22/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/22/2009
Thallium	0.033J	µg/L	0.03	1	A Wilson	5/22/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/22/2009
Zinc	5.4	µg/L	1.9	5	A Wilson	5/22/2009

Lab-Sample Number: K00002356003
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.9 at underwater weir
Sampler Project Name: TVA Ash Spill
Project Site No.: 2B
Station No.: EMORY001.9RO
Date/Time Collected: 05/07/2009 11:02
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 6.97 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.54
Dissolved Oxygen: 9.93 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.07J	µg/L	0.029	0.2	A Bass	5/12/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002356004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA Ash Spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/07/2009 11:12
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.10 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.46
Dissolved Oxygen: 10.00 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/14/2009				S Ufegbu	5/14/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	460	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	450	µg/L	6.4	10	A Wilson	5/22/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/22/2009
Arsenic	0.94J	µg/L	0.93	5	A Wilson	5/22/2009
Barium	31	µg/L	2.5	5	A Wilson	5/22/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/22/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/22/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/22/2009
Cobalt	0.51J	µg/L	0.04	1	A Wilson	5/22/2009
Copper	2.7	µg/L	0.38	1	A Wilson	5/22/2009
Lead	0.77J	µg/L	0.10	1	A Wilson	5/22/2009
Manganese	40	µg/L	0.42	1	A Wilson	5/22/2009
Nickel	1.7	µg/L	0.25	1	A Wilson	5/22/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/22/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/22/2009
Thallium	0.038J	µg/L	0.03	1	A Wilson	5/22/2009
Vanadium	4.1J	µg/L	3.4	5	A Wilson	5/22/2009
Zinc	4.9J	µg/L	1.9	5	A Wilson	5/22/2009

Lab-Sample Number: K00002356004
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 1.7
Sampler Project Name: TVA Ash Spill
Project Site No.: 3
Station No.: EMORY001.7RO
Date/Time Collected: 05/07/2009 11:12
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.10 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.46
Dissolved Oxygen: 10.00 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1					
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE	
Mercury	0.06J	µg/L	0.029	0.2	A Bass	5/12/2009	

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002356005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 05/07/2009 11:21
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 6.99 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.89
Dissolved Oxygen: 9.89 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/14/2009				S Ufegbu	5/14/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	430	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	460	µg/L	64.0	100	A Wilson	5/22/2009
Antimony	0.017	µg/L	0.00561	0.017	A Wilson	5/22/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/22/2009
Barium	28	µg/L	2.5	5	A Wilson	5/22/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/22/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/22/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/22/2009
Cobalt	0.43J	µg/L	0.04	1	A Wilson	5/22/2009
Copper	2.4	µg/L	0.38	1	A Wilson	5/22/2009
Lead	0.62J	µg/L	0.10	1	A Wilson	5/22/2009
Manganese	36	µg/L	0.42	1	A Wilson	5/22/2009
Nickel	1.6	µg/L	0.25	1	A Wilson	5/22/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/22/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/22/2009
Thallium	0.033J	µg/L	0.03	1	A Wilson	5/22/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/22/2009
Zinc	5.1	µg/L	1.9	5	A Wilson	5/22/2009

Lab-Sample Number: K00002356005
Project Name: TVA-Ash Spill
Sample Description: Emory River mile 0.1
Sampler Project Name: TVA Ash Spill
Project Site No.: 4
Station No.: EMORY000.1RO
Date/Time Collected: 05/07/2009 11:21
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 6.99 pH Units
Chlorine, residual:
Conductivity: 44 uMHO
Temperature: 15.89
Dissolved Oxygen: 9.89 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.06J	µg/L	0.029	0.2	A Bass	5/12/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002356006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA Ash Spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/07/2009 11:33
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.19 pH Units
Chlorine, residual:
Conductivity: 105 uMHO
Temperature: 16.75
Dissolved Oxygen: 9.63 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/14/2009				S Ufegbu	5/14/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	780	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	690	µg/L	64.0	100	A Wilson	5/22/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/22/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/22/2009
Barium	33	µg/L	2.5	5	A Wilson	5/22/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/22/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/22/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/22/2009
Cobalt	0.59J	µg/L	0.04	1	A Wilson	5/22/2009
Copper	2.5	µg/L	0.38	1	A Wilson	5/22/2009
Lead	0.89J	µg/L	0.10	1	A Wilson	5/22/2009
Manganese	40	µg/L	0.42	1	A Wilson	5/22/2009
Nickel	1.8	µg/L	0.25	1	A Wilson	5/22/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/22/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/22/2009
Thallium	0.053J	µg/L	0.03	1	A Wilson	5/22/2009
Vanadium	U	µg/L	3.4	5	A Wilson	5/22/2009
Zinc	3.8J	µg/L	1.9	5	A Wilson	5/22/2009

Lab-Sample Number: K00002356006
Project Name: TVA-Ash Spill
Sample Description: Clinch River mile 2.3
Sampler Project Name: TVA Ash Spill
Project Site No.: 5
Station No.: CLINC002.3RO
Date/Time Collected: 05/07/2009 11:33
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.19 pH Units
Chlorine, residual:
Conductivity: 105 uMHO
Temperature: 16.75
Dissolved Oxygen: 9.63 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.06J	µg/L	0.029	0.2	A Bass	5/12/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number: K00002356007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA Ash Spill
Project Site No.: 5A
Station No.: KingAshOurF2
Date/Time Collected: 05/07/2009 11:42
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.16 pH Units
Chlorine, residual:
Conductivity: 53 uMHO
Temperature: 17.81
Dissolved Oxygen: 9.56 mg/L
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/14/2009				S Ufegbu	5/14/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	960	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	1300	µg/L	64.0	100	A Wilson	5/22/2009
Antimony	0.45J	µg/L	0.33	1	A Wilson	5/22/2009
Arsenic	2.8J	µg/L	0.93	5	A Wilson	5/22/2009
Barium	54	µg/L	2.5	5	A Wilson	5/22/2009
Beryllium	0.21J	µg/L	0.11	1	A Wilson	5/22/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/22/2009
Chromium	2.9J	µg/L	2.0	5	A Wilson	5/22/2009
Cobalt	1.1	µg/L	0.04	1	A Wilson	5/22/2009
Copper	6.5	µg/L	0.38	1	A Wilson	5/22/2009
Lead	2.0	µg/L	0.10	1	A Wilson	5/22/2009
Manganese	46	µg/L	0.42	1	A Wilson	5/22/2009
Nickel	2.7	µg/L	0.25	1	A Wilson	5/22/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/22/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/22/2009
Thallium	0.14J	µg/L	0.03	1	A Wilson	5/22/2009
Vanadium	3.6J	µg/L	3.4	5	A Wilson	5/22/2009
Zinc	6.1	µg/L	1.9	5	A Wilson	5/22/2009

Lab-Sample Number: K00002356007
Project Name: TVA-Ash Spill
Sample Description: Clinch River TVA Discharge Point
Sampler Project Name: TVA Ash Spill
Project Site No.: 5A
Station No.: KingAshOurF2
Date/Time Collected: 05/07/2009 11:42
Sampler's Name: Geoff Klein
County: ROANE - 73
Sample Matrix: Water
EFO: Knoxville
Sampling Agency: TDEC-WPC
Billing Code: 327.34-20
Send Report To: TDEC-WPC
Agency Invoiced: TDEC-WPC
Priority Date:
Date/Time Received: 05/07/2009 14:40
Received By: E McCrary

Field Determinations
pH: 7.16 pH Units
Chlorine, residual:
Conductivity: 53 uMHO
Temperature: 17.81
Dissolved Oxygen: 9.56 mg/L
Other:
Flow: CFS

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	0.07J	µg/L	0.029	0.2	A Bass	5/12/2009

J - Estimated value between MDL and MQL
 MDL - Method Detection Limit
 MQL - Method Quantitation Limit
 U - Undetected

Lab-Sample Number:	K00002356008	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.68 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	235 uMHO
Project Site No.:	6	Temperature:	17.48
Station No.:	CLINC004.5RO	Dissolved Oxygen:	9.91 mg/L
Date/Time Collected:	05/07/2009 11:55	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/07/2009 14:40		
Received By:	E McCrary		

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	05/14/2009				S Ufegbu	5/14/2009

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	710	µg/L	2.9	10	A Wilson	5/26/2009

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	690	µg/L	64.0	100	A Wilson	5/22/2009
Antimony	U	µg/L	0.33	1	A Wilson	5/22/2009
Arsenic	U	µg/L	0.93	5	A Wilson	5/22/2009
Barium	35	µg/L	2.5	5	A Wilson	5/22/2009
Beryllium	U	µg/L	0.11	1	A Wilson	5/22/2009
Cadmium	U	µg/L	0.41	1	A Wilson	5/22/2009
Chromium	U	µg/L	2.0	5	A Wilson	5/22/2009
Cobalt	0.58J	µg/L	0.04	1	A Wilson	5/22/2009
Copper	2.7	µg/L	0.38	1	A Wilson	5/22/2009
Lead	0.95J	µg/L	0.10	1	A Wilson	5/22/2009
Manganese	66	µg/L	0.42	1	A Wilson	5/22/2009
Nickel	2.2	µg/L	0.25	1	A Wilson	5/22/2009
Selenium	U	µg/L	1.3	5	A Wilson	5/22/2009
Silver	U	µg/L	0.03	0.25	A Wilson	5/22/2009
Thallium	0.047J	µg/L	0.03	1	A Wilson	5/22/2009
Vanadium	4.7J	µg/L	3.4	5	A Wilson	5/22/2009
Zinc	4.6J	µg/L	1.9	5	A Wilson	5/22/2009

Lab-Sample Number:	K00002356008	Field Determinations	
Project Name:	TVA-Ash Spill	pH:	7.68 pH Units
Sample Description:	Clinch River mile 4.5 near Sugar Grove Valley R	Chlorine, residual:	
Sampler Project Name:	TVA Ash Spill	Conductivity:	235 uMHO
Project Site No.:	6	Temperature:	17.48
Station No.:	CLINC004.5RO	Dissolved Oxygen:	9.91 mg/L
Date/Time Collected:	05/07/2009 11:55	Other:	
Sampler's Name:	Geoff Klein	Flow:	CFS
County:	ROANE - 73		
Sample Matrix:	Water		
EFO:	Knoxville		
Sampling Agency:	TDEC-WPC		
Billing Code:	327.34-20		
Send Report To:	TDEC-WPC		
Agency Invoiced:	TDEC-WPC		
Priority Date:			
Date/Time Received:	05/07/2009 14:40		
Received By:	E McCrary		

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	ML	ANALYZED BY:	DATE
Mercury	0.10J	µg/L	0.029	0.2	A Bass	5/12/2009

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected